

PAINE
Miracle
DOORS





Anthony Giacchino

January 16 - 1928

on Gansu job. French 47.

1 ✓ front door 3' x 7' the same as one shown to the owner
with round glass chestnut

2 side lights 8" x 7' m. 850 or (S. 45) ^{door} chestnut

1 ✓ door 3-0 x 7-0 m. 600 (Page 28) 9"

B.R. & Kitch 1 ✓ " 2-6 x 6-8 m. 701 C x B (P. 20) " ^{Miracle door 130 Ash}

Ent. cl. 1 ✓ " 2-6 x 6-8 Plate mirror m. 803 (P. 23) " ^{Miracle 130 Ash}

Ent. to Kitch 1 ✓ " 2-6 x 6-8 - ^{Miracle 130 Ash} ~~2~~ chestnut " ^{or Oak}

B.R. to B porch 1 ✓ " 2-8 x 6-8 m. 701 C x B (P. 22) " ^{Miracle Fr. W.P.}

K. to B porch 1 ✓ " 2-6 x 6-8 m. 701 C x B (P. 22) " ^{Miracle Fr. W.P.}

B.R. to Cellar 1 ✓ " 2-6 x 6-8 m. 212 or m. 683 1/2 (Page 14) fir } 9"

Ent. 1 ✓ " 2-6 x 6-6 m. 212 or m. 683 1/2 (P. 14) " }

Bed room 1 ✓ " 2-6 x 6-6 15 lights or 12 with fan in bathroom?

1 ✓ " 2-6 x 6-8

same structure

same



ORIGINAL
The Door
TRADE MARK REG PAT. JULY 10, 1923

The Price is Low—The Quality High

The popular-priced door of exclusive design.

The MIRACLE DOOR is a door of great beauty and we have faithfully reproduced it.

We have conveyed through the natural harmonies of printing art the remarkable beauty and versatility of the MIRACLE DOOR.

In Hardwood—The MIRACLE DOOR costs no more than an ordinary one-panel hardwood door.

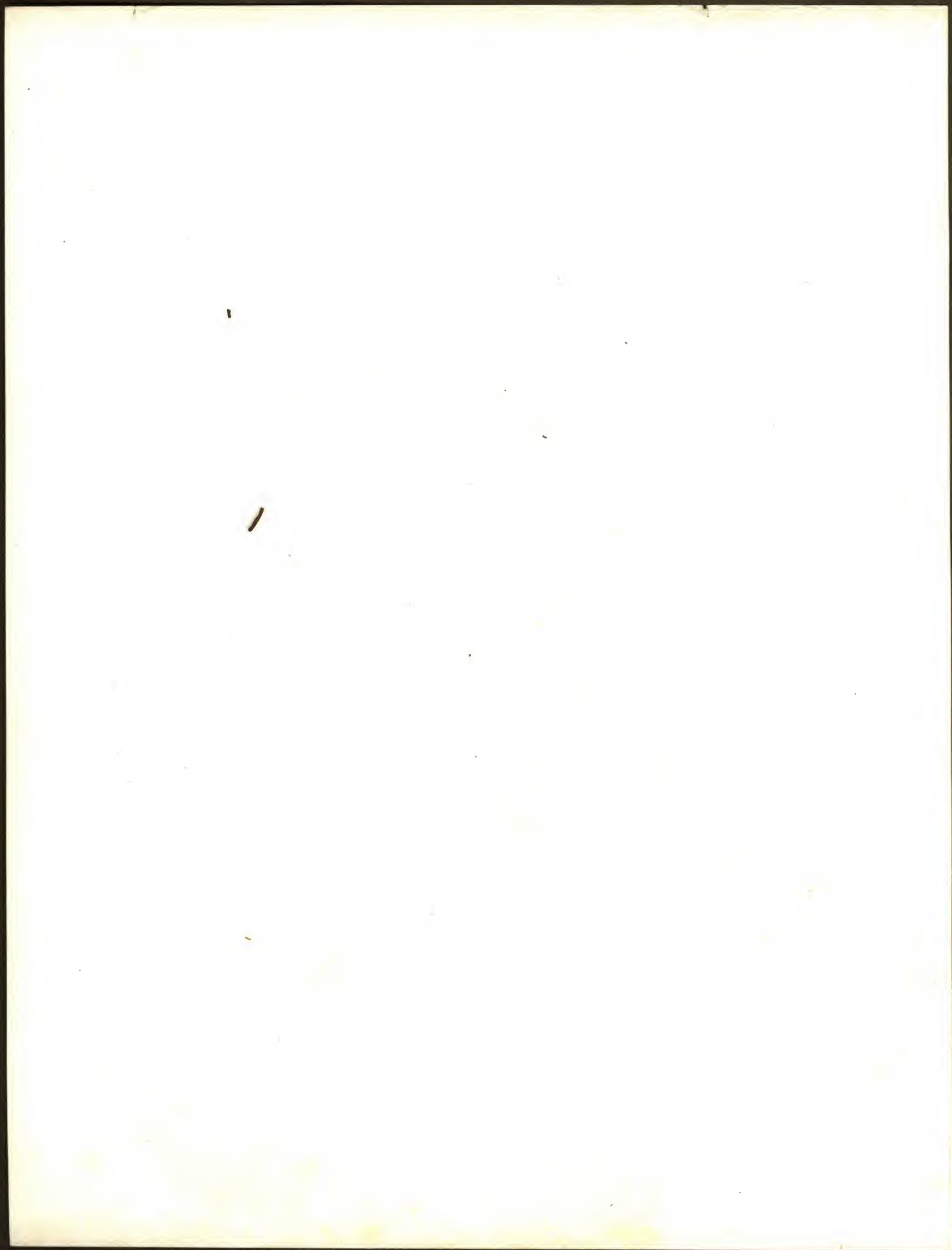
In Softwood—It costs about one dollar more than an ordinary one-panel softwood door.

The MIRACLE DOOR is reasonably priced.

The Quality is high and the price is low.

Demand the genuine Miracle Door. Refuse imitations.

PAINE LUMBER CO., Ltd.,
OSHKOSH, WISCONSIN, U. S. A.



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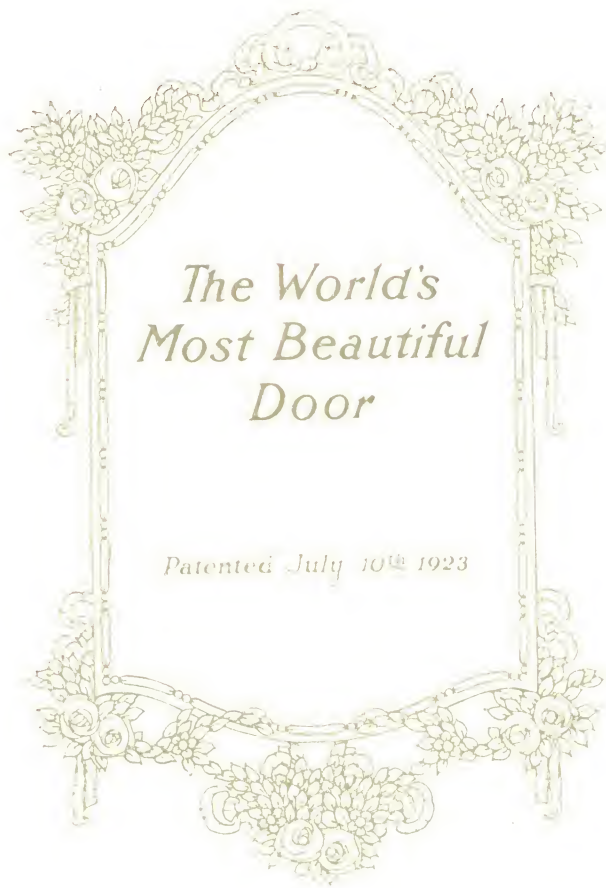
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From the collection of:

Mike Jackson, FAIA



PAINE
Miracle
DOORS

Illustrations Descriptions
Specifications
and
Representative Installations

PAINE LUMBER COMPANY
LTD.
OSHKOSH, WISCONSIN.
U. S. A.

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BY P. L. CO. LTD



THE MIRACLE DOOR is a revelation of beauty and economy.

The MIRACLE DOOR adapts itself to the many styles of architecture. It is suitable for all types of buildings, including homes, apartments, hotels, hospitals and office buildings.

Illustration shows Design 700 with Pine stiles and rails, unselected Birch insert frame, panel and moulding. For layout see pages forty-eight to fifty.

Softwood MIRACLE DOORS cost about one dollar more than one panel softwood doors.



THE MIRACLE DOOR brings to the door industry the greatest improvement in doors ever made.

The MIRACLE MIRROR DOOR can be quickly made from a stock MIRACLE panel door. Prompt service is thus made possible for wholesalers and retailers.

Illustration shows Design 701 with Pine stiles and rails on face, back of door matches Design 700 with Pine stiles and rails, unselected Birch insert frame and moulding. For layout and glass sizes see pages forty-eight to fifty.



The hardwood MIRACLE DOOR costs no more than a one panel hardwood door.



THE MIRACLE DOOR is made possible by entirely new patented standards of precision in wood manufacture.

This Mirror door is made with the mirror set on the insert frame. On account of the size of the mirror in this design there is a great saving in cost.

Illustration shows Design 702 with Pine stiles and rails, unselected Birch insert frame, panel and moulding. For layout and glass sizes see pages forty-eight to fifty.

Softwood MIRACLE DOORS cost about one dollar more than one panel softwood doors.

THE MIRACLE DOOR is a framed picture in wood—Nature's most beautiful and satisfying building material.

This door is intended for double acting doors or for doors opening into passageways where light is necessary.

Illustration shows Design 703 with Pine stiles and rails, unselected Birch insert frame, panel and moulding. For layout and glass sizes see pages forty-eight to fifty.



The hardwood MIRACLE DOOR costs no more than a one panel hardwood door.



THE MIRACLE DOOR has been endorsed and specified by architects and enthusiastically received by the entire building industry.

This one light door is suitable either for a front or vestibule door. It reduces the glass measurement so that the economy is a considerable item. Thinner or cheaper glass can be used if desired. For front doors we recommend plate glass.

Illustration shows Design 704 with Pine stiles and rails, unselected Birch insert frame and moulding. For layout and glass sizes see pages forty-eight to fifty.

Softwood MIRACLE DOORS cost about one dollar more than one panel softwood doors.

THE MIRACLE DOOR is produced and guaranteed by an organization that operates from tree to finished product with unparalleled facilities.

This door may be used either as a French door or a front door. The lights are small enough to permit the use of sheet glass if desired.

Illustration shows Design 705 with Pine stiles and rails, unselected Birch insert frame and moulding. For layout and glass sizes see pages forty-eight to fifty.



The hardwood MIRACLE DOOR costs no more than a one panel hardwood door.

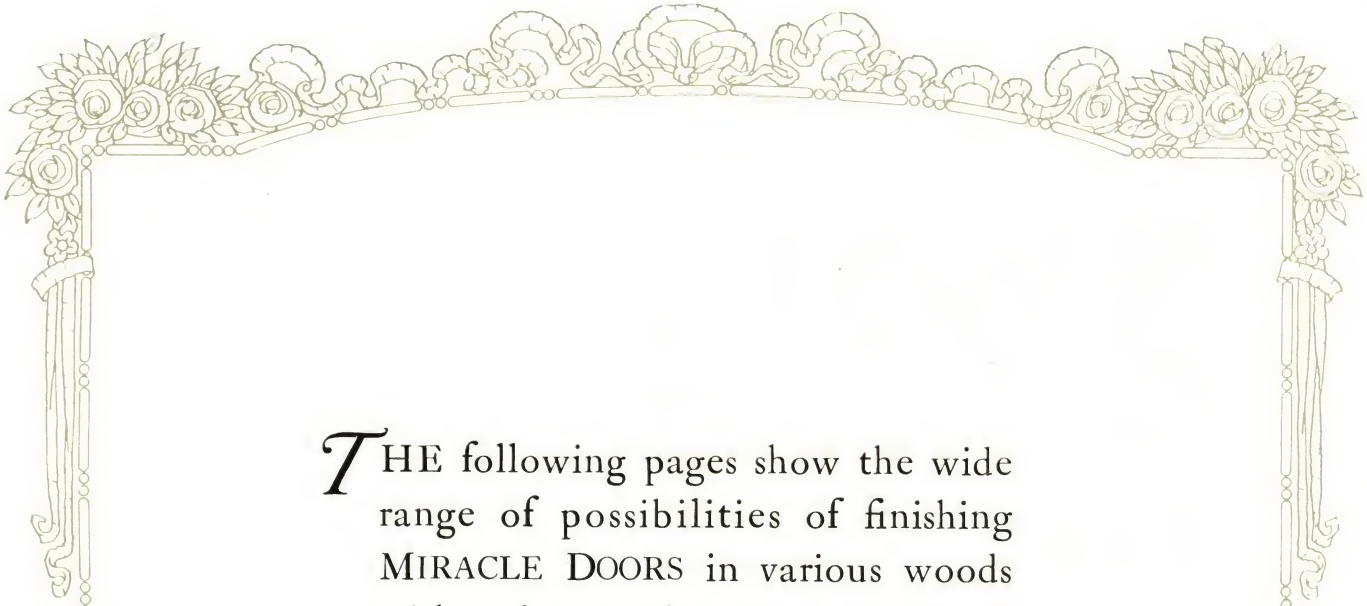


THE MIRACLE DOOR is substantial — attractive — distinctive.

This door is designed to be used where a full French door is needed. It is made with solid P. G. sticking to match the moulding of the MIRACLE DOOR.

Illustration shows Design 706 in Pine. For layout and glass sizes see page fifty.

MIRACLE DOORS are made in all woods.



THE following pages show the wide range of possibilities of finishing MIRACLE DOORS in various woods with color combinations produced with tints, paints and wall paper treatments.

The finishing formulas and the names of the manufacturers of the stains, paints and wall papers will be gladly furnished upon request.

The golden stain on this door brings out sharply the natural picture effect of the Birch grain. The MIRACLE DOOR combines the simplicity of the one panel door with the richness of a moulded door.

□ □

Illustration shows a MIRACLE DOOR with Pine frame and unselected Birch insert with the trim Yellow Pine. The door and trim are finished golden with one coat of stain, one coat of orange shellac and two coats of varnish. The wall effect is produced with wall paper. The floor is plain Red Oak finished golden.



THE SRAVHUT APARTMENT - WASHINGTON D. C.
DESIGNED BY T. H. HARRIS - ARCHITECT - WASHINGTON D. C.

Page 10



The possibilities of staining the MIRACLE DOOR and using it in combination with varied wall treatments are unlimited. Desired contrasts can easily be secured with the MIRACLE DOOR which adapts itself to any style of trim.

□ □

Illustration shows a MIRACLE DOOR with Pine frame and unselected Birch insert, with the trim Yellow Pine. The door and trim are finished oriental brown with one coat of stain and two coats of varnish. The stippled effect of the wall is produced with either wall paper or paint. The floor is Maple finished natural.



ROCKEFELLER JUNIOR DORMITORY
MT. HOLYOKE COLLEGE, FOUNTAIN HILLS, MASS.
PUTNAM & COX, ARCHITECTS, BOSTON, MASS.

Page Enclosed

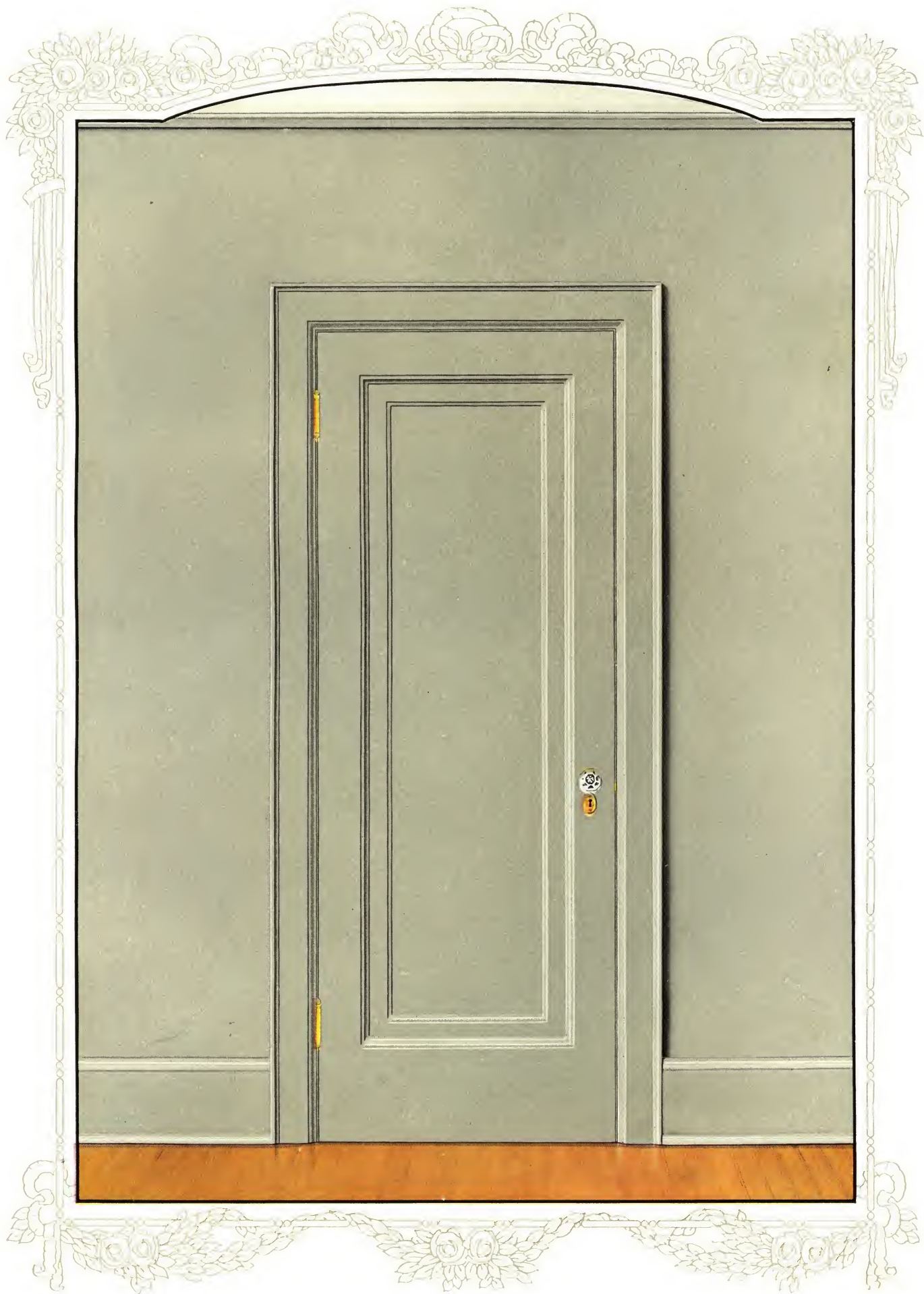


French Gray is a very popular color treatment for one or more rooms in a home, as it affords a pleasing contrast to the high colorings of the draperies and furniture.

□ □

Illustration shows a MIRACLE DOOR with Spruce frame and unselected Birch insert with the trim Spruce. The door, trim and wall are finished French gray with two coats of flat French gray. The floor is Maple finished natural.





This combination is an economical one, but the effect produced is equal to that of the higher priced woods. It is a delightful tone for the treatment of dining-rooms or living-rooms. Note the harmony in color of the Pine and Birch in this walnut shade.

□ □

Illustration shows a MIRACLE DOOR with Pine frame and unselected Birch insert, with the trim Yellow Pine. The door and trim are finished walnut with one coat of stain, one coat of orange shellac and two coats of varnish. The wall effect is produced with paint or calcimine. The floor is Yellow Pine finished natural.



BUCKINGHAM AND BELMONT APARTMENTS
DENVER, COLORADO
WILLIAM BOWMAN COMPANY, ARCHITECTS, DENVER, COLORADO

The Painter



This combination is especially pleasing for bed-rooms, although it is very suitable with plain walls for kitchens and bathrooms. The use of the soft-wood door and trim makes this combination a very economical one. The smooth sanitary appearance of the MIRACLE DOOR makes it a logical door for hospitals.

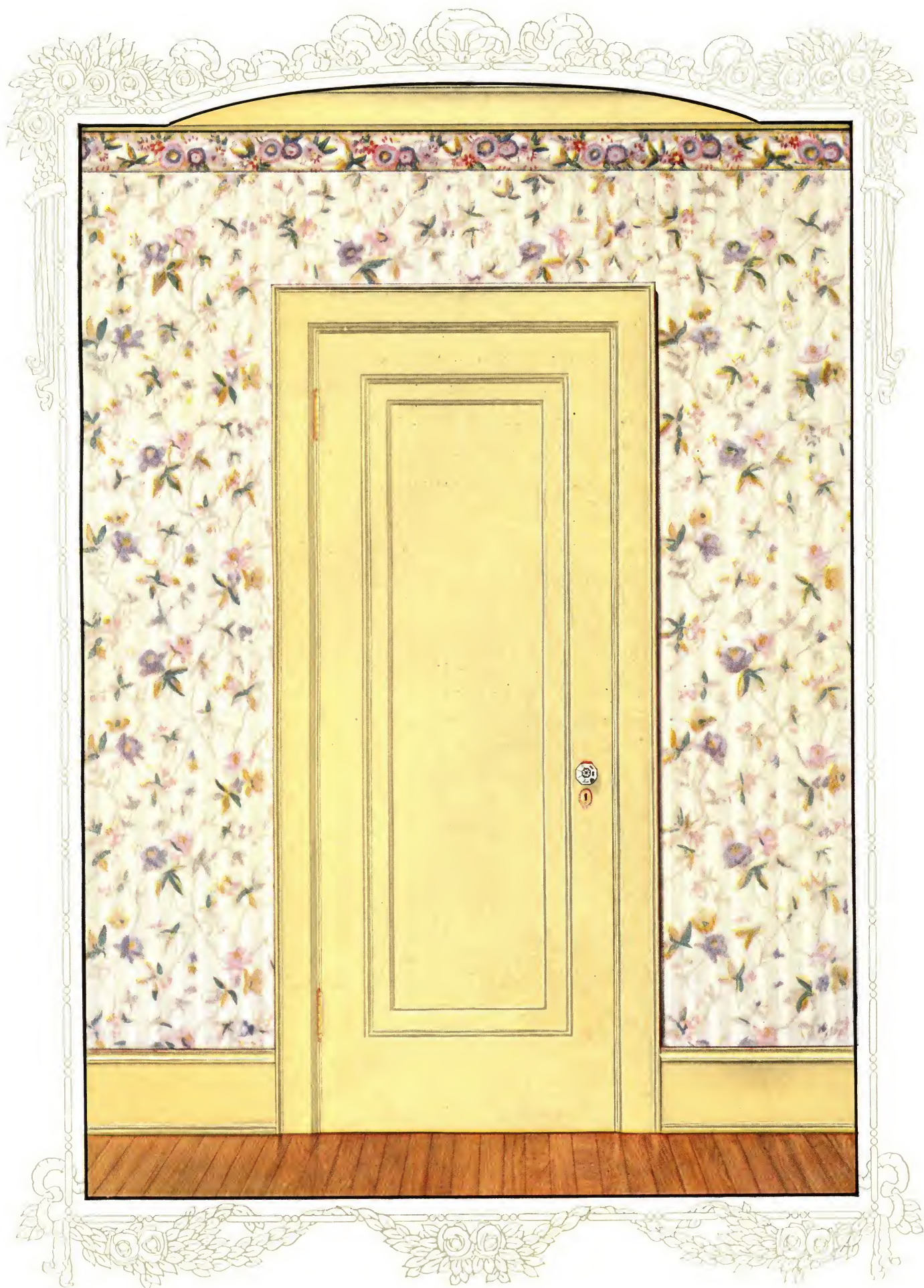
□ □

Illustration shows a MIRACLE DOOR with Spruce frame and unselected Birch insert, with the trim Spruce. The door and trim are finished old ivory with three coats of flat white, one coat of ivory under-body and one coat of old ivory satin finish enamel. The wall effect is produced with wall paper. The floor is Maple finished natural.



The MIRACLE door is used in all types of residences
— from the bungalow to the mansion.

Page 1002



The MIRACLE DOOR is manufactured in all woods. Yellow Pine can be finished in the natural or with stained effects if desired.

□ □

Illustration shows a veneered Yellow Pine MIRACLE DOOR with Yellow Pine trim. The door and trim are finished natural with one coat of orange shellac and two coats of varnish. The wall shows a Tiffany effect produced with wall paper. The floor is Yellow Pine finished golden.



STUDIO APARTMENTS, BOSTON, MASS.
- F. A. ROSSIGNOL, ARCHT. - BOSTON, MASS.



For beauty of grain Wisconsin Elm is superior to most hardwoods. Its clear, bold figure is brought out prominently with any of the ordinary stains. This combination will lend dignity to dining-rooms, hallways or libraries.

□ □

Illustration shows a veneered Wisconsin Elm MIRACLE DOOR with Wisconsin Elm trim. The door and trim are finished silver gray with one coat of acid stain, one coat of white paste filler, one coat of white shellac and one coat of Dulkote varnish. The wall shows a wall paper effect. The floor is plain Red Oak finished natural.

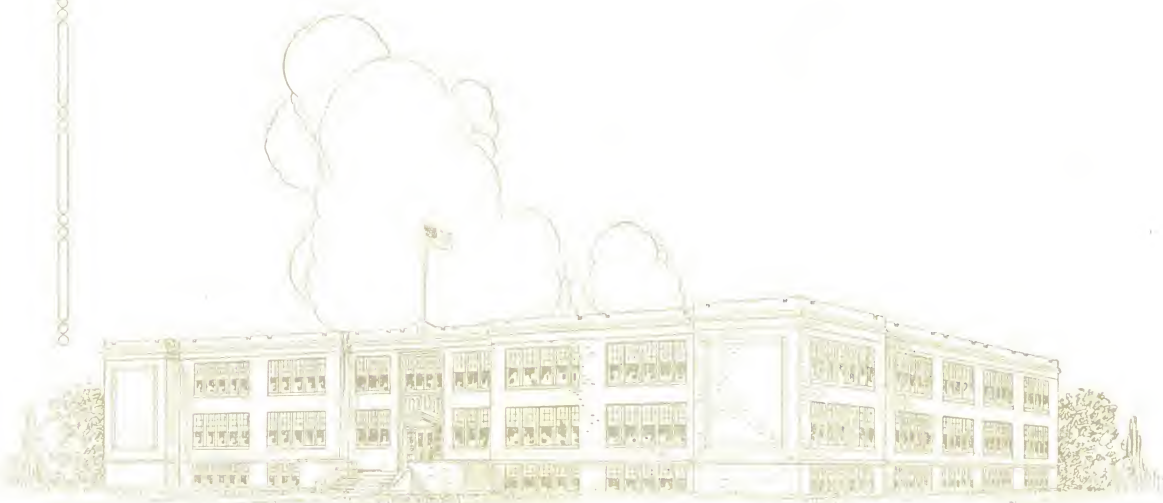




Elm is a hardwood and is susceptible to all the color schemes possible with Oak, Chestnut or Brown Ash, and at a much lower price.

□ □

Illustration shows a veneered Wisconsin Elm MIRACLE DOOR with Wisconsin Elm trim. The door and trim are finished walnut with one coat of stain, one coat of white shellac and two coats of varnish. The wall shows a wall paper effect. The floor is plain Red Oak finished natural.



CHICAGO JUNIOR HIGH SCHOOL 1916 MAY
JOS. H. CONANT ARCHITECT CHICAGO

Page 10



For picture grain Wisconsin Elm is not excelled by any wood. Elm accepts the faintest color or the deepest stain without destroying or obscuring the grain. This combination is practical for finishing offices or hotels.

□ □

Illustration shows a veneered Wisconsin Elm MIRACLE DOOR with Wisconsin Elm trim. The door and trim are finished antique with one coat of stain, one coat of white shellac and two coats of varnish. The wall shows a painted effect. The floor is plain Red Oak finished natural.



SYLBURN COURT APARTMENTS - BALTIMORE, MD.
GEO. R. CALLIS, JR., ARCHITECT - BALTIMORE, MD.



The beauties of Birch in color and the high polish that the wood accepts are well known. They are fully demonstrated in this color plate. The straight lines of the door match the panelled effects now so popular in dining-rooms.

□ □

Illustration shows a veneered unselected Birch MIRACLE DOOR with unselected Birch trim. The door and trim are finished old mahogany with one coat of stain, one coat of orange shellac and two coats of varnish. The wall shows a panelled effect produced with either wall paper or paint. The floor is plain Red Oak finished golden.





You can paint, stain, or finish Birch natural. Any tone or shade is possible in this wood. As a cabinet article at a stock door price the MIRACLE DOOR has no equal. Its smooth, sanitary appearance makes it suitable in place of a flush door at a great saving in cost.

□ □

Illustration shows a veneered unselected Birch MIRACLE DOOR with unselected Birch trim. The door and trim are finished walnut with one coat of stain, one coat of white shellac and two coats of varnish. The wall shows a Tiffany effect produced with either wall paper or paint. The floor is plain Red Oak finished golden.



BON AIR-VANDERBILT HOTEL - AUGUSTA, GA.
WILLIAM HAIN ARCHITECT - AUGUSTA, GA.
McKIM-MEAD AND WHITE ASSOCIATES, NEW-YORK CITY

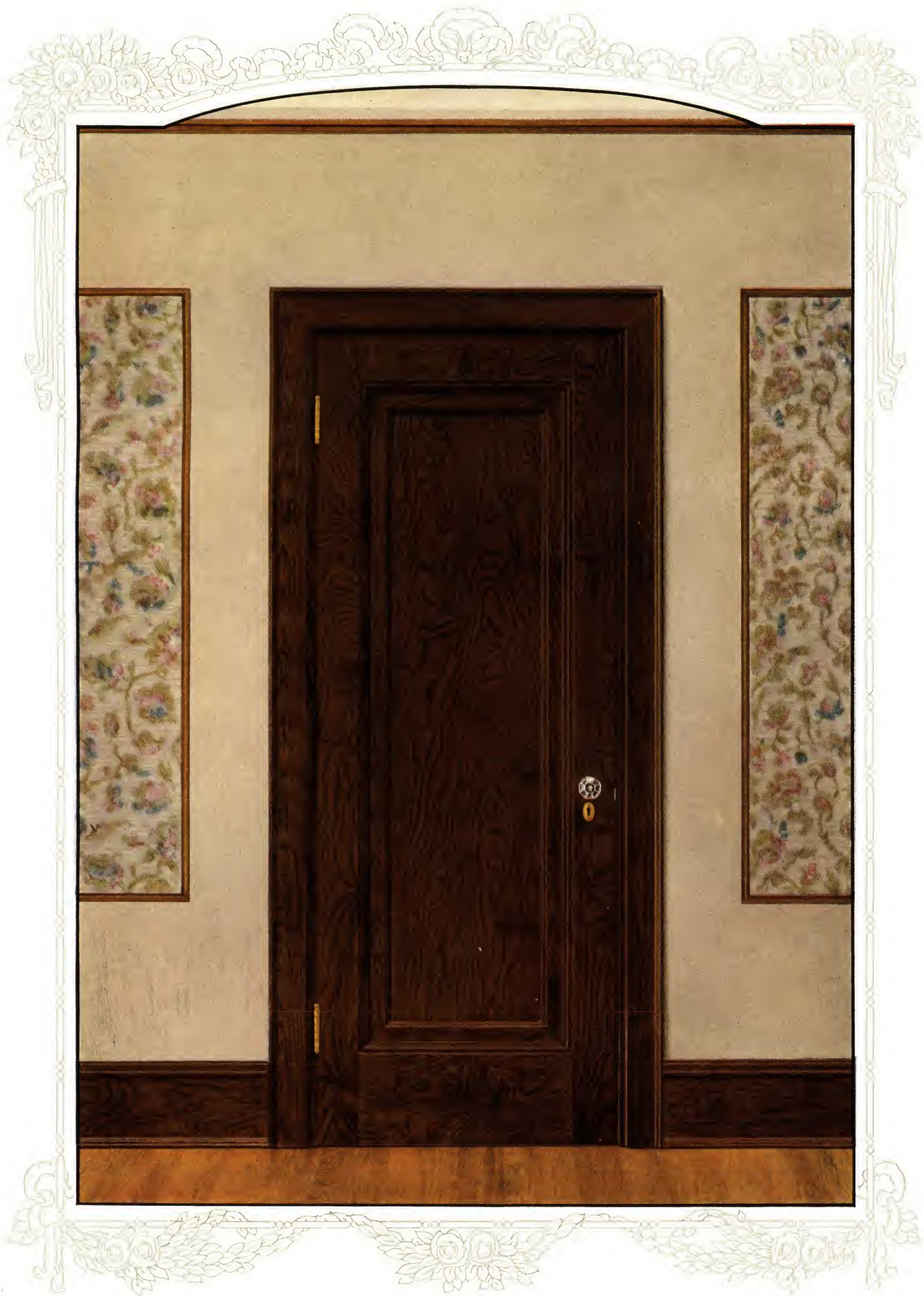


Birch is America's most versatile hardwood. Stains accentuate its natural picture grain. No other wood surpasses its variety of grain or has its wearing qualities.

□ □

Illustration shows a veneered unselected Birch MIRACLE DOOR with unselected Birch trim. The door and trim are finished Adam brown mahogany with one coat of stain, one coat of one-half orange and one-half white shellac and two coats of varnish. The wall effect can be produced with either wall paper or paint. The floor is plain Red Oak finished golden.





Color is life. Children love color, therefore, we should use color in great variety in their play rooms. Wood is Nature's first and best building material and stain brings out every twirl of the natural grain so that each door is a framed picture in wood.

□ □

Illustration shows a veneered unselected Birch MIRACLE DOOR with unselected Birch trim. The door is finished old mahogany with one coat of stain, one coat of orange shellac and two coats of varnish. The trim is old ivory finished with three coats of flat white, one coat of ivory underbody and one coat of satin finish old ivory enamel. The wall effect is produced with wall paper. The floor is Maple finished natural.



THE ROSEMONT CLEVELAND, O.
HARVEY ARCHITECT, CLEVELAND, O.

PLATE TWENTY-NINE



Plain Red Oak finished golden brings out prominently the grain of the wood. This is one of the most popular colors on Oak. Note in this picture of the $1\frac{3}{8}$ -inch door the heavy panel recess which suggests the heavier $1\frac{3}{4}$ -inch door.

□ □

Illustration shows a veneered plain Red Oak MIRACLE DOOR with the trim plain Red Oak. The door and trim are finished golden with one coat of golden paste filler and three coats of varnish. The wall effect can be produced with either paint or calcimine. The floor is plain Red Oak finished natural.



Miracle Door, Department Store, New York City



Oak lends itself to either light or dark color treatments and can be used where a highly decorative effect is desired. This combination shows a contrast in colors that is very effective.

□ □

Illustration shows a veneered plain Red Oak MIRACLE DOOR with the trim plain Red Oak. The door and trim are finished Jacobean with one coat of oil stain, one coat of one-half orange and one-half white shellac and one coat of wax. The wall effect is produced with wall paper. The floor is quartered White Oak finished dark golden.



BRECKIN APARTMENTS MINNEAPOLIS, MINN.
ALEXANDER, FRASER & CO. ARCHT.
MINNEAPOLIS, MINN.

Plank Lorry



MIRACLE DOORS are made in all woods. Quartered Oak is especially suitable for public buildings, as its wearing qualities are well known.

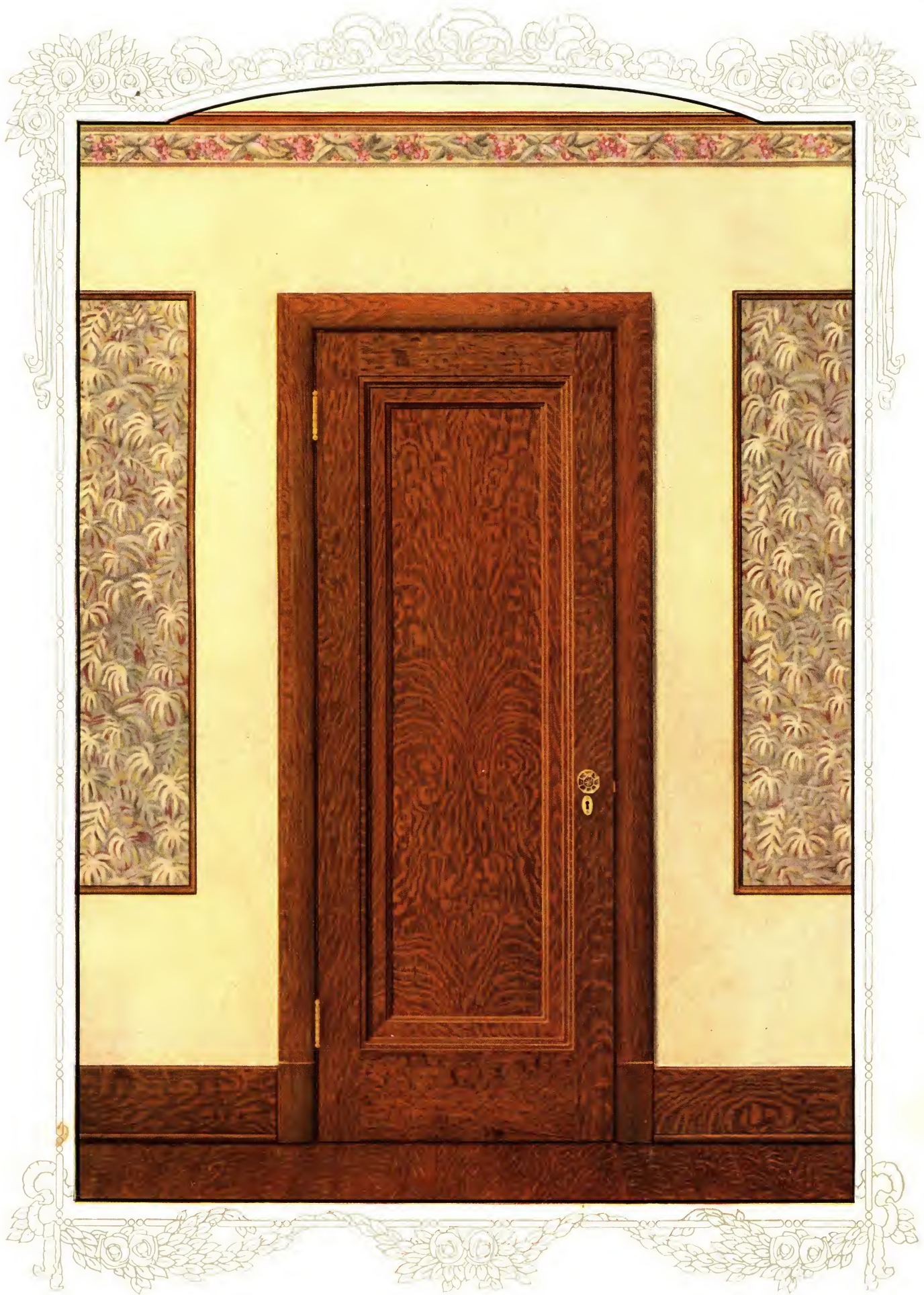
□ □

Illustration shows a veneered quartered White Oak MIRACLE DOOR with quartered White Oak trim. The door and trim are finished fumed with one coat of fumed paste filler, one coat of white shellac and two coats of varnish. The wall shows a wall paper effect. The floor is quartered White Oak finished fumed.



FORRESTER HIGH SCHOOL WICHITA, KANSAS
MIRACLE DOOR CO. CHICAGO, ILL. U.S. PATENT OFFICE

Pat. 1,011,111



While Mahogany is one of the most expensive of the hardwoods, the MIRACLE DOOR cost in this wood is considerably less than a detailed door. The Miracle design harmonizes with wood panel work as well as other wall effects.

□ □

Illustration shows a veneered Mahogany MIRACLE DOOR with Mahogany trim. The door and trim are finished Adam brown Mahogany with one coat of stain, one coat of filler, one coat of one-half orange and one-half white shellac and two coats of varnish. The wall shows a wall paper effect. The floor is quartered White Oak finished golden.



THE GARDEN CITY HOTEL, NEW YORK
DESIGNED BY J. H. WATSON & ASSOCIATES

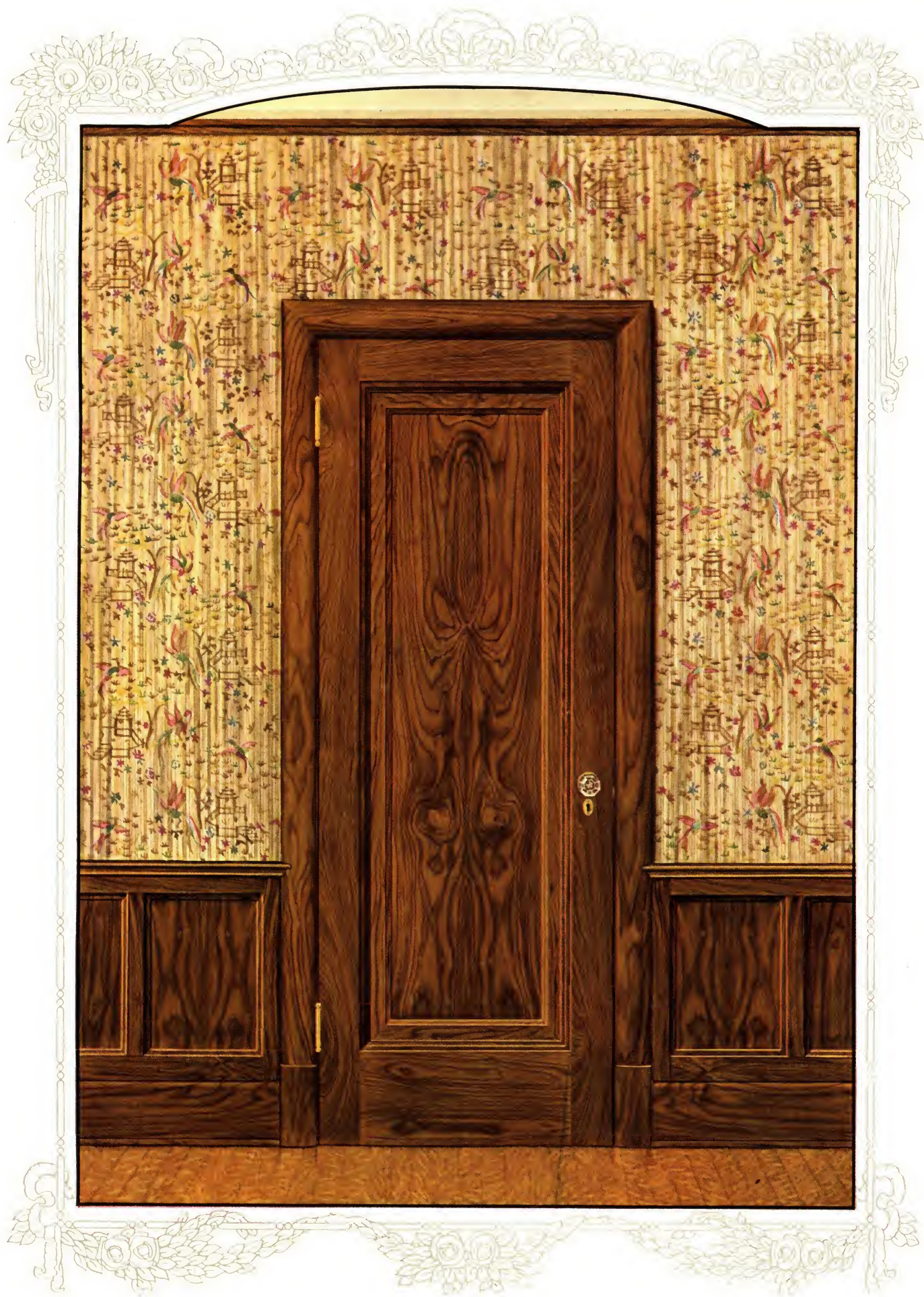


Of the expensive hardwoods American Black Walnut is one of the most popular. It is usually shown in practically its natural color and the grain is thus prominently portrayed. The MIRACLE DOOR with the French base combination will beautify the most expensively appointed residence.

□ □

Illustration shows a veneered American Black Walnut door with American Black Walnut trim and French base. This combination is finished natural with one coat of walnut tinted filler and three coats of varnish. The wall effect is produced with wall paper. The floor is quartered White Oak finished golden.







Construction of Softwood MIRACLE DOOR

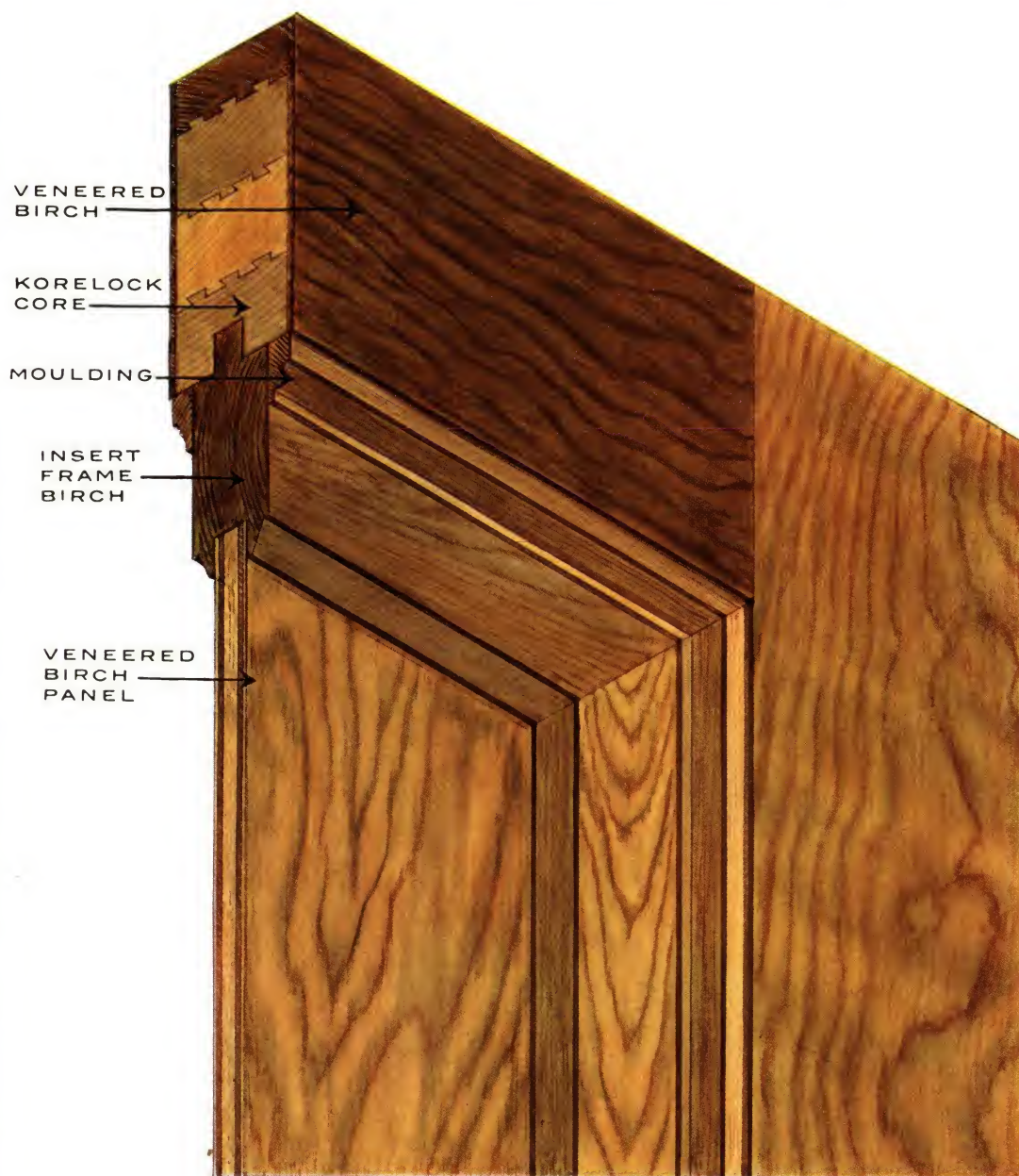


Patented July 10, 1923. Trade Mark Registered

Softwood MIRACLE DOORS cost about one dollar more than one panel softwood doors.



Construction of Hardwood MIRACLE DOOR



Patented July 10, 1923. Trade Mark Registered

The hardwood MIRACLE DOOR costs no more than a one panel hardwood door.

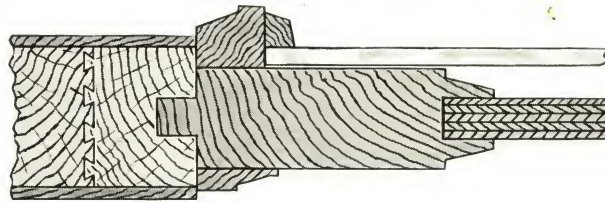


Glass Sizes of MIRACLE Sash Doors

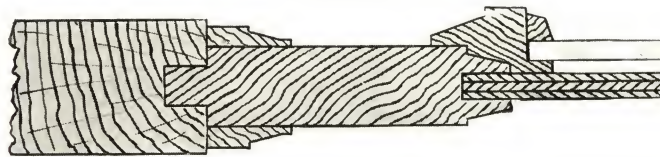
DESIGN	2-6 x 6-6	2-6 x 6-8	2-8 x 6-8	2-10 x 6-10	2-6 x 7-0	2-8 x 7-0	2-10 x 7-0	3-0 x 7-0	3-0 x 7-6	3-0 x 8-0
No. 701.....	20x62 $\frac{3}{4}$	20x64 $\frac{3}{4}$	22x64 $\frac{3}{4}$	24x66 $\frac{3}{4}$	20x68 $\frac{3}{4}$	22x68 $\frac{3}{4}$	24x68 $\frac{3}{4}$	26x68 $\frac{3}{4}$	26x74 $\frac{3}{4}$	26x80 $\frac{3}{4}$
No. 702.....	14 $\frac{3}{4}$ x57 $\frac{1}{2}$	14 $\frac{3}{4}$ x59 $\frac{1}{2}$	16 $\frac{3}{4}$ x59 $\frac{1}{2}$	18 $\frac{3}{4}$ x61 $\frac{1}{2}$	14 $\frac{3}{4}$ x63 $\frac{1}{2}$	16 $\frac{3}{4}$ x63 $\frac{1}{2}$	18 $\frac{3}{4}$ x63 $\frac{1}{2}$	20 $\frac{3}{4}$ x63 $\frac{1}{2}$	20 $\frac{3}{4}$ x69 $\frac{1}{2}$	20 $\frac{3}{4}$ x75 $\frac{1}{2}$
No. 703.....	16x16	16x18	18x18	20x20	16x22	18x22	20x22	22x22	22x28	22x34
No. 704.....	16x58 $\frac{7}{8}$	16x60 $\frac{7}{8}$	18x60 $\frac{7}{8}$	20x62 $\frac{7}{8}$	16x64 $\frac{7}{8}$	18x64 $\frac{7}{8}$	20x64 $\frac{7}{8}$	22x64 $\frac{7}{8}$	22x70 $\frac{7}{8}$	22x76 $\frac{7}{8}$
No. 705.....	7 $\frac{9}{16}$ x11 $\frac{1}{2}$	7 $\frac{9}{16}$ x11 $\frac{3}{8}$	8 $\frac{9}{16}$ x11 $\frac{3}{8}$	9 $\frac{9}{16}$ x12	7 $\frac{9}{16}$ x12 $\frac{7}{8}$	8 $\frac{9}{16}$ x12 $\frac{7}{8}$	9 $\frac{9}{16}$ x12 $\frac{7}{8}$	10 $\frac{9}{16}$ x12 $\frac{7}{8}$	10 $\frac{9}{16}$ x13 $\frac{3}{8}$	10 $\frac{9}{16}$ x14 $\frac{3}{8}$
No. 706.....	6 $\frac{3}{4}$ x12 $\frac{1}{2}$	6 $\frac{3}{4}$ x12 $\frac{7}{8}$	7 $\frac{3}{4}$ x12 $\frac{7}{8}$	8x13 $\frac{5}{8}$	6 $\frac{3}{4}$ x13 $\frac{1}{2}$	7 $\frac{3}{4}$ x13 $\frac{1}{2}$	8x13 $\frac{1}{2}$	8 $\frac{3}{4}$ x13 $\frac{1}{2}$	8 $\frac{3}{4}$ x14 $\frac{7}{8}$	8 $\frac{3}{4}$ x16 $\frac{1}{2}$

NOTE:—To make a mirror door No. 701 remove flush moulding from a stock door one side and apply our stock mirror moulding to the insert frame as detailed below.

NOTE:—To make a mirror door No. 702 apply our stock mirror moulding to the insert frame as detailed below.



Mirror Construction No. 701
One Half Size



Mirror Construction No. 702
One Half Size

Layouts of Doors

DESIGN	STILES FACE MEASURE INCHES	STILES INCLUDING MOULDING	STILES INCLUDING INSERT FRAME	TOP RAIL INCHES	LOCK RAIL INCHES	BOTTOM RAIL INCHES	WIDTH OF STICKING OF INSERT FRAME INCHES	BAR INCHES
No. 700..	4 $\frac{1}{4}$	5 $\frac{1}{4}$	7 $\frac{1}{2}$	4 $\frac{1}{4}$	...	9 $\frac{1}{2}$	$\frac{1}{2}$	...
No. 701..	4 $\frac{1}{4}$	5 $\frac{1}{4}$	...	4 $\frac{1}{4}$	...	9 $\frac{1}{2}$	$\frac{1}{2}$	...
No. 702..	4 $\frac{1}{4}$	5 $\frac{1}{4}$	7 $\frac{1}{2}$	4 $\frac{1}{4}$	...	9 $\frac{1}{2}$	$\frac{1}{2}$	...
No. 703..	4 $\frac{1}{4}$	5 $\frac{1}{4}$	7 $\frac{1}{2}$	4 $\frac{1}{4}$	2 $\frac{3}{4}$	9 $\frac{1}{2}$	$\frac{1}{2}$	...
No. 704..	4 $\frac{1}{4}$	5 $\frac{1}{4}$	7 $\frac{1}{2}$	4 $\frac{1}{4}$	...	9 $\frac{1}{2}$	$\frac{1}{2}$	...
No. 705..	4 $\frac{1}{4}$	5 $\frac{1}{4}$	7 $\frac{1}{2}$	4 $\frac{1}{4}$	...	9 $\frac{1}{2}$	$\frac{1}{2}$	1
No. 706..	4 $\frac{1}{4}$	4 $\frac{3}{4}$	...	4 $\frac{3}{4}$	...	9 $\frac{1}{2}$	..	1 $\frac{1}{2}$

NOTE:—Wider stiles, if required, will be furnished at a reasonable extra.



How To Specify MIRACLE DOORS

Genuine MIRACLE DOORS are manufactured only by the Paine Lumber Co. Ltd., of Oshkosh, Wis. To insure receiving the genuine patented MIRACLE, specify in the case of hardwood the kind of wood, i.e., all doors to be the original Paine MIRACLE in Birch Unselected as to color (or other woods), manufactured by the Paine Lumber Co. Ltd., Oshkosh, Wis. In the case of the softwood door, specify all doors to be the original Paine MIRACLE with Pine (or Spruce) stiles and rails, Unselected Birch insert frame and panels, manufactured by Paine Lumber Co. Ltd., of Oshkosh, Wis. All Genuine Paine MIRACLE DOORS have the Paine MIRACLE Trade-Mark on the edge of the door.

Our sales offices can give you the names of the distributors in your district who carry the Paine MIRACLE DOORS in stock.

Guarantee

Like all of the products of our Plants Paine MIRACLE DOORS are fully guaranteed.

This guarantee does not protect purchaser against defects due to damage in transit, rough handling, inferior painters' finish, or unreasonable exposure to moisture.

MIRACLE DOORS are made and guaranteed by the producers of KLIMAX and KORE-LOCK DOORS.

Suggestions

Standard Veneered Doors should only be used for exterior purposes where they are well protected by a wide porch or veranda. Where the protection is not ample or they are directly exposed, the doors should be made with veneers either $\frac{3}{16}$ inch or $\frac{3}{8}$ inch thick.

All doors, where exposed in any way, should be given at least two good coats of EXTERIOR VARNISH, and the top and bottom edges well filled with oil paint.

In sash doors the glass should be bedded in putty and a coat or two of shellac applied around the opening before the glass stops are set.

General

Doors are high grade goods and should be treated accordingly. They should be stored only in clean, dry places. They should not be delivered to buildings under construction until the buildings have been thoroughly dried out. If necessary, apply artificial heat. When delivered, they should be finished immediately.

Finishing of Woodwork

The process of finishing woodwork can be understood more clearly by considering the subject under the following heads: Woods, Temperature, Surfaces, Stains, Filling and Finishing Coats.

WOODS. The woods used for Interior Woodwork are divided into two classes, viz., Close Grained Woods, which do not require Paste Filler, and Open Grained Woods, which do require Paste Filler. The following is a classified list:

Close Grained Woods		Open Grained Woods	
HARDWOODS	SOFTWOODS	HARDWOODS	SOFTWOODS
Birch	Gum	Oak	Butternut
Cherry	Yellow Pine	Walnut	Chestnut
Maple	White Pine	Calico Ash	
	Basswood	Brown Ash	
	Spruce	Mahogany	
	Fir		
	Redwood		
	Cedar		
	Hemlock		
	Whitewood		

TEMPERATURE. To apply varnish satisfactorily, the temperature of the room in which it is used should be about 70 degrees Fahrenheit, as cold interferes with the working qualities of varnish. It is very important that the wood be free from dampness or the varnish will not dry satisfactorily. Weather conditions also affect the drying. It requires a considerably longer period for varnish to dry in warm, sultry weather.

SURFACES. Varnish does not conceal but magnifies the natural beauty of the wood. A defect on the surface will also be magnified; hence, the importance of seeing that the surface is carefully smoothed and free from defects, dirt and dust before applying the finish.

STAINS. Stains of reliable quality, of nearly any shade desired, may be purchased in proper shape for applying. Where stain is used, it is the first application on the wood, either open or close grained, after it is properly surfaced and cleaned.

Stains are designated according to the liquid vehicle in which the colors are mixed, as Spirit Stains, Pigment Oil Stains and Water Stains.

Spirit Stains usually have alcohol as a vehicle. This evaporates so quickly and the stain dries so rapidly that it is impossible to apply the stain evenly on a surface of any dimension. The wood becomes dark in some places and light in others, and the "laps" show plainly. Any attempts at equalizing usually make matters worse. Spirit Stains also have a tendency to "bleed," i.e., their color works through the varnish finish.

Oil stains are intended principally for soft or close grained woods. They do not raise the grain and for this reason are economical in producing the smooth finishes. Splendid effects can be obtained with oil stains, but the colors are less clear and transparent than those produced by water stains.

Water Stains, often termed acid stains, produce the most satisfactory results. They have a tendency to raise the grain, but this is easily overcome by sponging wood with clear water and sanding smooth before applying the stain. This is only necessary where very smooth finishes are desired. Water Stains produce clear, transparent colors, are simple to use, can be applied evenly and quickly on woods of all kinds and will permit of any method of finishing over them. Water Stains, however, should not be used on exterior work from the fact that it is necessary to apply a coat of Shellac over

these stains, and Shellac is not recommended for exterior use. If other than the natural wood color is desired for exterior work on close grained woods, one coat of Pigment Oil Stain (desired color) should be applied, then two or three coats of Exterior Varnish. Open grained woods should first be filled with a Paste Filler. Sometimes the desired effect can be obtained by using Paste Filler of the color desired. If, however, a different color is wanted than can be obtained by Paste Fillers, the open grained wood should first be stained with a Pigment Oil Stain of the color desired, then filled with a Paste Filler as nearly the same color as the stain. Then apply two or three coats of Exterior Varnish.

FILLING. Close grained woods do not require Paste Filler, as they have no open cellular tissue to fill. Open grained woods, after being properly surfaced and stained, where a stain finish is desired, should be thoroughly filled with what is known as "Paste Filler." The filler should be allowed at least twenty-four hours to dry. If an examination shows that the surface is perfectly smooth, the wood may be considered ready for the first coat of varnish. When filling stained woods, the shade of filler is usually the same color as the stain, but frequently altered to produce varied effects.

FINISHING COATS. At this point it is necessary to use a finishing varnish suitable for the purpose. On exterior woodwork a high grade of Exterior Varnish should be used to stand the exposure of the weather. Two good coats will prove satisfactory, but three will give the finish more fullness and a richer effect. On interior woodwork an Interior Finishing Varnish should be used, the exact kind and quality depending on whether the final finish is to be left in the gloss, rubbed dull or rubbed and polished.

GLOSS FINISH. On interior woodwork apply to the natural or stained surface a thin coat of shellac, let dry and then sand with 00 flint paper. Apply first coat of interior gloss varnish. Allow to dry thoroughly, then sand with 000 flint paper. Apply second coat of same varnish and let dry. On exterior woodwork **DO NOT USE SHELLAC.** A good grade of exterior varnish should be used and applied directly to the surface. Sand first coat of varnish when dry with 000 flint paper, then apply second coat of exterior varnish and let dry. If third coat of varnish is applied, sand with 000 sand paper between second and third coats.

RUBBED FINISH. On interior woodwork use an interior rubbing varnish. Proceed the same as for gloss finish, rubbing the last coat when dry with FFF pumice stone and paraffin rubbing oil to an egg-shell gloss. Wipe surface clean with cotton waste. On exterior woodwork use a good grade of exterior varnish, same as for gloss finish, proceed in the same way, rubbing the last coat when thoroughly dry with FFF pumice stone and paraffin rubbing oil to an egg-shell gloss. Wipe the surface clean with cotton waste.

RUBBED AND POLISHED FINISH. On interior woodwork use a rubbing and polishing varnish. Proceed with same as for a rubbed finish. After rubbing finish coat of varnish with pumice stone and oil, polish with rotten stone and furniture polish. Wipe surface clean with cotton waste. It is not customary to rub and polish exterior woodwork.

FLAT FINISHES. There are at the present time on the market various Flat Finishes of reliable quality for interior woodwork which will produce either a mission or rubbed finish without the labor of rubbing. While these materials do not entirely take the place of rubbing and polishing varnish, there are many cases where they may be used with the highest satisfaction, and by their use either of the above named effects will be secured at a greatly reduced cost. Where material of this nature is used, the finishing process is the same up to the application of the finishing coat.

Standard MIRACLE DOOR Sizes

Birch Veneered

2- 0 x 6-6, $1\frac{3}{8}$	2- 6 x 6- 6, $1\frac{3}{4}$
2- 4 x 6-6, $1\frac{3}{8}$	2- 0 x 6- 8, $1\frac{3}{4}$
2- 6 x 6-6, $1\frac{3}{8}$	2- 2 x 6- 8, $1\frac{3}{4}$
2- 0 x 6-8, $1\frac{3}{8}$	2- 4 x 6- 8, $1\frac{3}{4}$
2- 2 x 6-8, $1\frac{3}{8}$	2- 6 x 6- 8, $1\frac{3}{4}$
2- 4 x 6-8, $1\frac{3}{8}$	2- 8 x 6- 8, $1\frac{3}{4}$
2- 6 x 6-8, $1\frac{3}{8}$	2-10 x 6- 8, $1\frac{3}{4}$
2- 8 x 6-8, $1\frac{3}{8}$	3- 0 x 6- 8, $1\frac{3}{4}$
2-10 x 6-8, $1\frac{3}{8}$	2- 6 x 6-10, $1\frac{3}{4}$
2- 0 x 7-0, $1\frac{3}{8}$	2- 0 x 7- 0, $1\frac{3}{4}$
2- 2 x 7-0, $1\frac{3}{8}$	2- 2 x 7- 0, $1\frac{3}{4}$
2- 4 x 7-0, $1\frac{3}{8}$	2- 4 x 7- 0, $1\frac{3}{4}$
2- 6 x 7-0, $1\frac{3}{8}$	2- 6 x 7- 0, $1\frac{3}{4}$
2- 8 x 7-0, $1\frac{3}{8}$	2- 8 x 7- 0, $1\frac{3}{4}$
2-10 x 7-0, $1\frac{3}{8}$	2-10 x 7- 0, $1\frac{3}{4}$
3- 0 x 7-0, $1\frac{3}{8}$	3- 0 x 7- 0, $1\frac{3}{4}$

Softwood

2- 0 x 6-0, $1\frac{3}{8}$	3- 0 x 6- 8, $1\frac{3}{8}$
2- 0 x 6-6, $1\frac{3}{8}$	2- 0 x 6-10, $1\frac{3}{8}$
2- 2 x 6-6, $1\frac{3}{8}$	2- 6 x 6-10, $1\frac{3}{8}$
2- 4 x 6-6, $1\frac{3}{8}$	2- 8 x 6-10, $1\frac{3}{8}$
2- 6 x 6-6, $1\frac{3}{8}$	2-10 x 6-10, $1\frac{3}{8}$
2- 8 x 6-6, $1\frac{3}{8}$	2- 0 x 7- 0, $1\frac{3}{8}$
2- 0 x 6-8, $1\frac{3}{8}$	2- 2 x 7- 0, $1\frac{3}{8}$
2- 2 x 6-8, $1\frac{3}{8}$	2- 4 x 7- 0, $1\frac{3}{8}$
2- 4 x 6-8, $1\frac{3}{8}$	2- 6 x 7- 0, $1\frac{3}{8}$
2- 6 x 6-8, $1\frac{3}{8}$	2- 8 x 7- 0, $1\frac{3}{8}$
2- 8 x 6-8, $1\frac{3}{8}$	2-10 x 7- 0, $1\frac{3}{8}$
2-10 x 6-8, $1\frac{3}{8}$	3- 0 x 7- 0, $1\frac{3}{8}$

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